

# ABSTRACT

## STANDARDIZATION SIMPLICIA AND EXTRACT OF *Aglaia odorata* LEAVES (*Aglaia odorata* Lour.)

Noer Amirul Muchmina

*Aglaia odorata* Lour is a medicinal plants used as traditional medicine. *Aglaia odorata* used for the treatment of heart diseases, bruises, wound, febrifuge and poisoning that causes vomiting (Bunyapraphatsara, 2000). In addition, *Aglaia odorata* can be used to treat flatulence, dizziness, accelerate delivery, boils, smell of the body (Hariana, 2009). And for gonorrhea, skin diseases (Gunawan *et al.*, 2001). Standard parameter which used in this research refers to Herbal Pharmacopoeia of Indonesia. This research will compare the result of standardization of *Aglaia odorata* from Purwodadi, Trawas and Temanggung. The result of the standard parameter of *Aglaia odorata* Leaves simplicia are: drying shrinkage Purwodadi ( $8,98\% \pm 0,12$ ), Trawas ( $9,43\% \pm 0,12$ ), Temanggung ( $9,70\% \pm 0,07$ ); ash content Purwodadi ( $6,86\% \pm 0,24$ ), Trawas ( $7,41\% \pm 0,36$ ), Temanggung ( $7,97\% \pm 0,14$ ); acid insoluble ash content Purwodadi ( $1,11\% \pm 0,03$ ), Trawas ( $1,06\% \pm 0,03$ ), Temanggung ( $1,17\% \pm 0,03$ ); water soluble extractive Purwodadi ( $14,10\% \pm 0,21$ ), Trawas ( $12,30\% \pm 0,29$ ), Temanggung ( $14,55\% \pm 0,34$ ); ethanol soluble extractive Purwodadi ( $15,39\% \pm 0,30$ ), Trawas ( $13,60\% \pm 0,41$ ), Temanggung ( $15,09\% \pm 0,35$ ); flavonoid content Purwodadi ( $5,08\% \pm 0,12$ ), Trawas ( $4,63\% \pm 0,03$ ), Temanggung ( $3,13\% \pm 0,03$ ). The TLC's chromatography pattern showed *Aglaia odorata* leaves from the three regions contain flavonoid. The result of the standard parameter of ethanol 96% extract of *Aglaia odorata* leaves are: *Aglaia odorata* leaves yield value Purwodadi 16,8%, Trawas 13%, Temanggung 8,7%; water content Purwodadi ( $7,55\% \pm 0,39$ ), Trawas ( $9,77\% \pm 0,38$ ), Temanggung ( $9,11\% \pm 0,38$ ); ash content Purwodadi ( $9,33\% \pm 0,16$ ), Trawas ( $9,69\% \pm 0,06$ ), Temanggung ( $10,09\% \pm 0,04$ ); acid insoluble ash content Purwodadi ( $0,85\% \pm 0,01$ ), Trawas ( $1,02\% \pm 0,04$ ), Temanggung ( $0,98\% \pm 0,03$ ); flavonoid content Purwodadi ( $29,25\% \pm 0,13$ ), Trawas ( $21,35\% \pm 0,38$ ), Temanggung ( $19,38\% \pm 0,28$ ).

Keywords: *Aglaia odorata* Lour., *Aglaia odorata* Leaves, *standardization*, standard parameters of simplicia and extract.